



**Town of Arlington, MA**

# **Massachusetts Avenue/ Pleasant Street/ Mystic Street: Improving Mobility**

**Public Information Meeting**

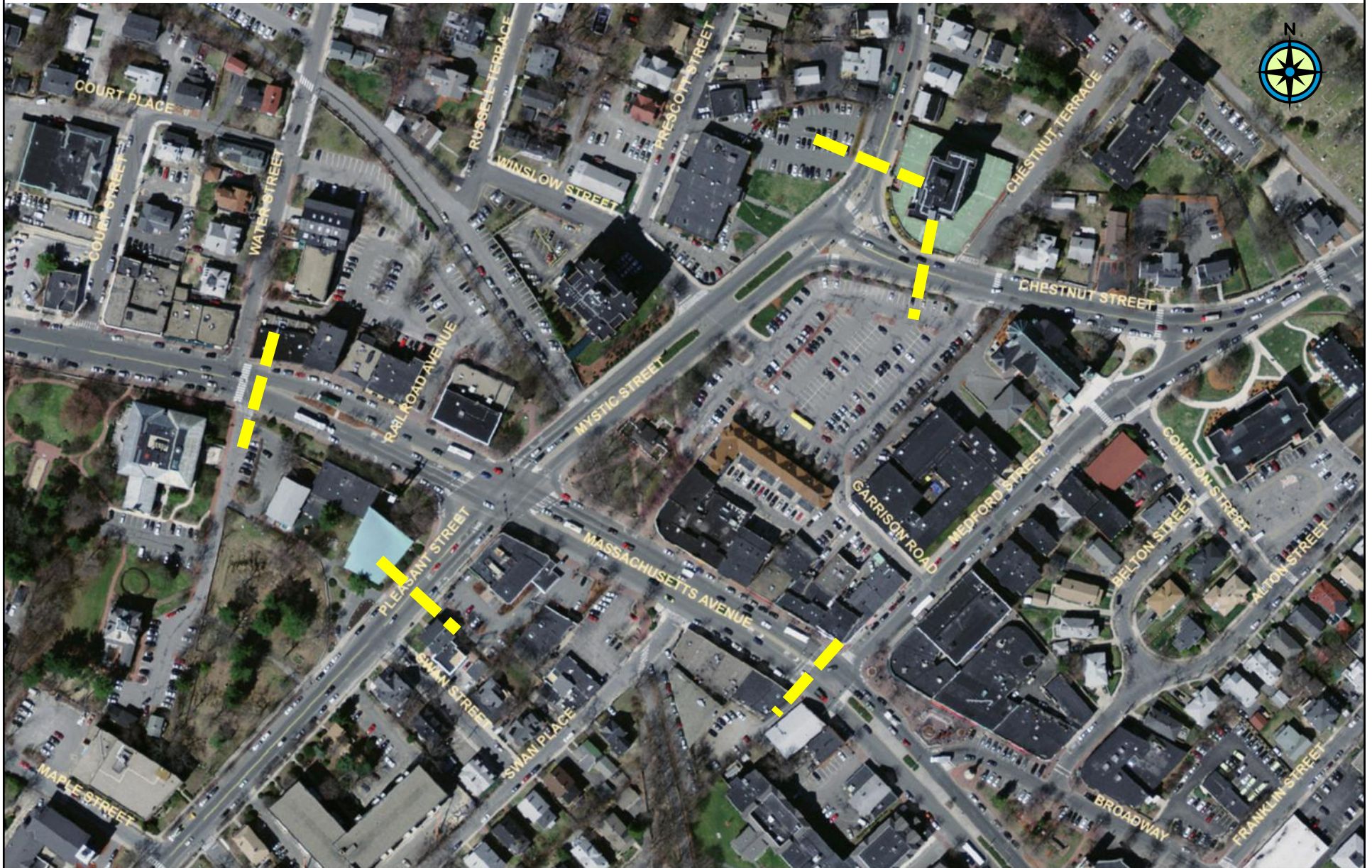
**November 6, 2013**



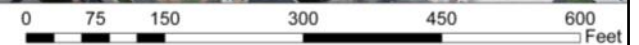
**Howard/Stein-Hudson Associates, Inc.**  
CREATIVE SOLUTIONS • EFFECTIVE PARTNERING ®



# Project Area



Limit of Work







# Goals and Objectives

- Improve pedestrian safety
- Improve bicycle safety and mobility
- Improve automobile mobility



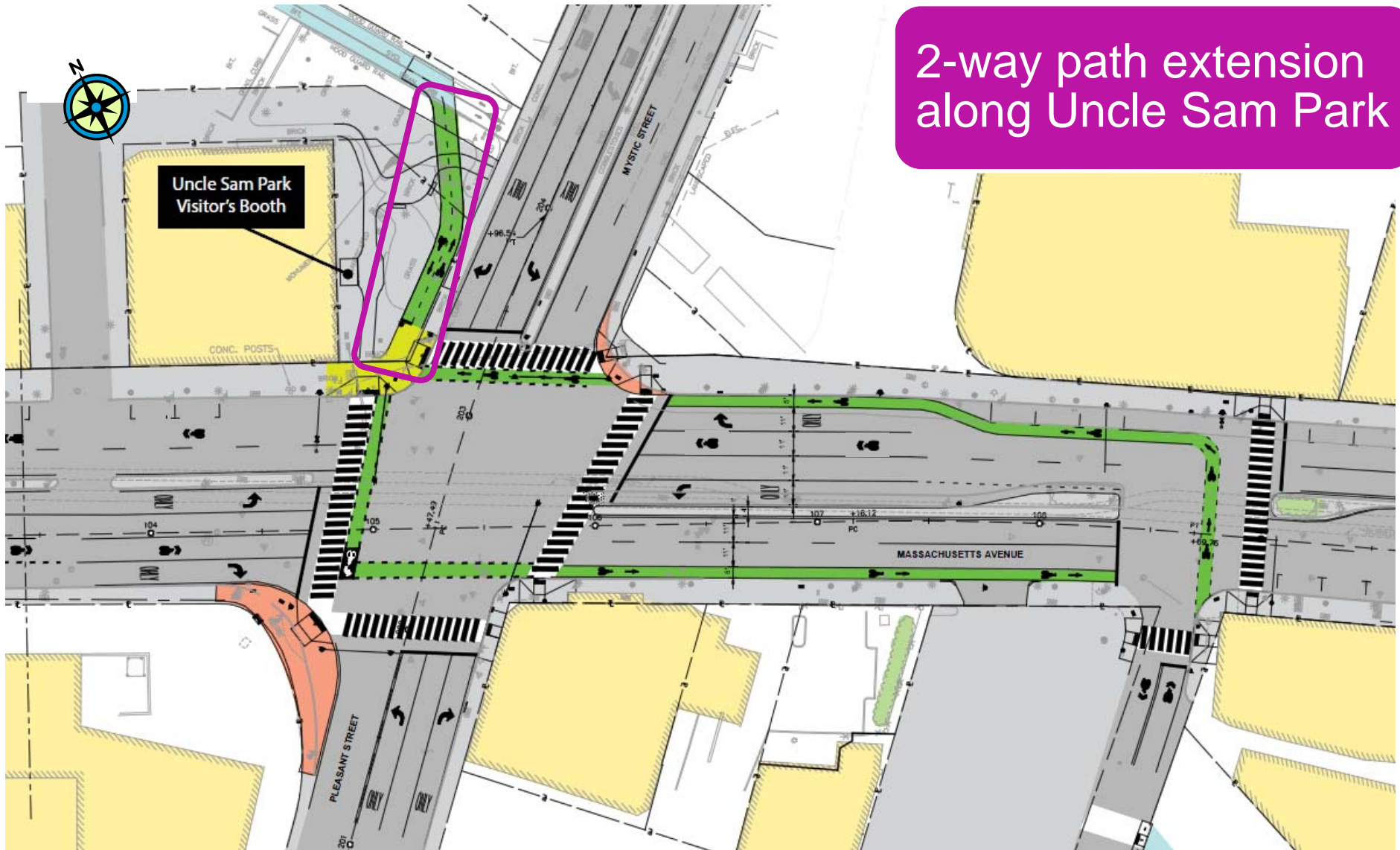


## Concerns Heard - Public Hearing – April 2013

- Width of roadway elements
- Length of time for seniors to cross intersection (2.8 ft/sec, USDOT/FHWA guidance)
- Pedestrian and bike queuing/storage on the northwest corner
- Is a diagonal crossing possible?
- Path definition for Minuteman Bikeway through the Massachusetts Avenue/Pleasant Street/Mystic Street intersection



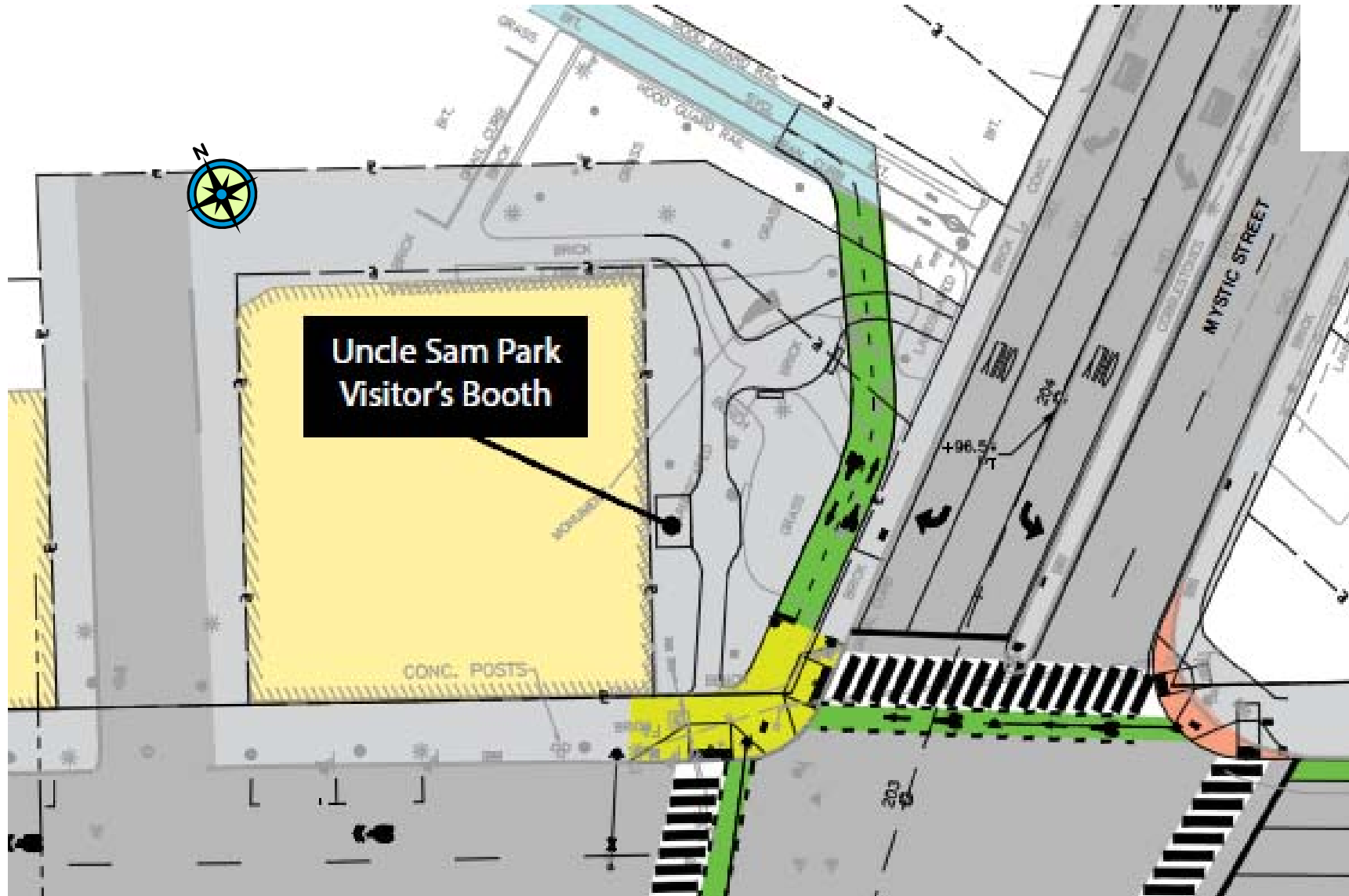
# Proposed Improvements



2-way path extension  
along Uncle Sam Park



# Proposed Improvements – Northeast Corner







# Bike Signals







# View of Path Extension along Mystic Street



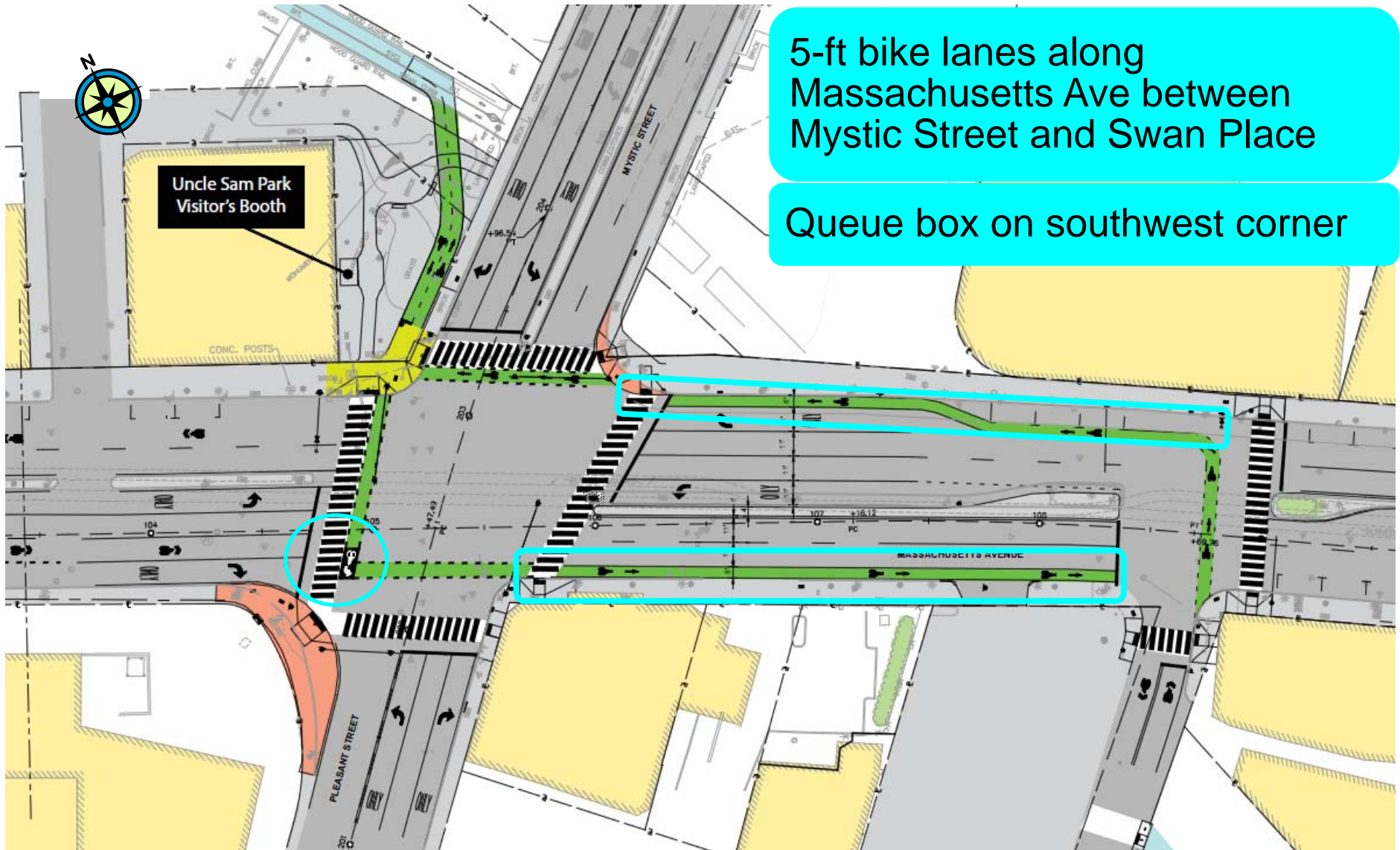




# Proposed Improvements

5-ft bike lanes along  
Massachusetts Ave between  
Mystic Street and Swan Place

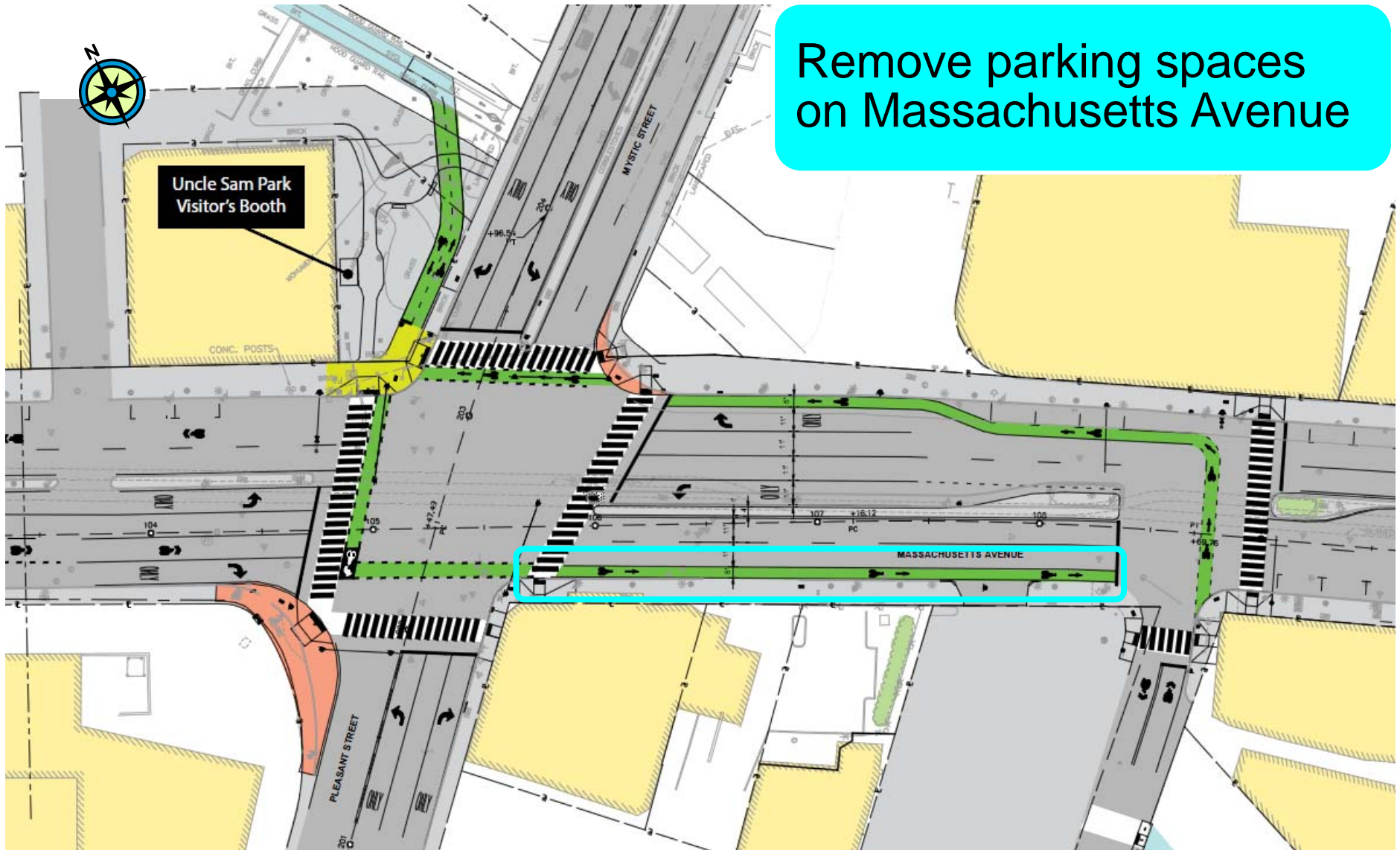
Queue box on southwest corner





# Proposed Improvements

Remove parking spaces  
on Massachusetts Avenue







# Proposed Conditions - Massachusetts Avenue

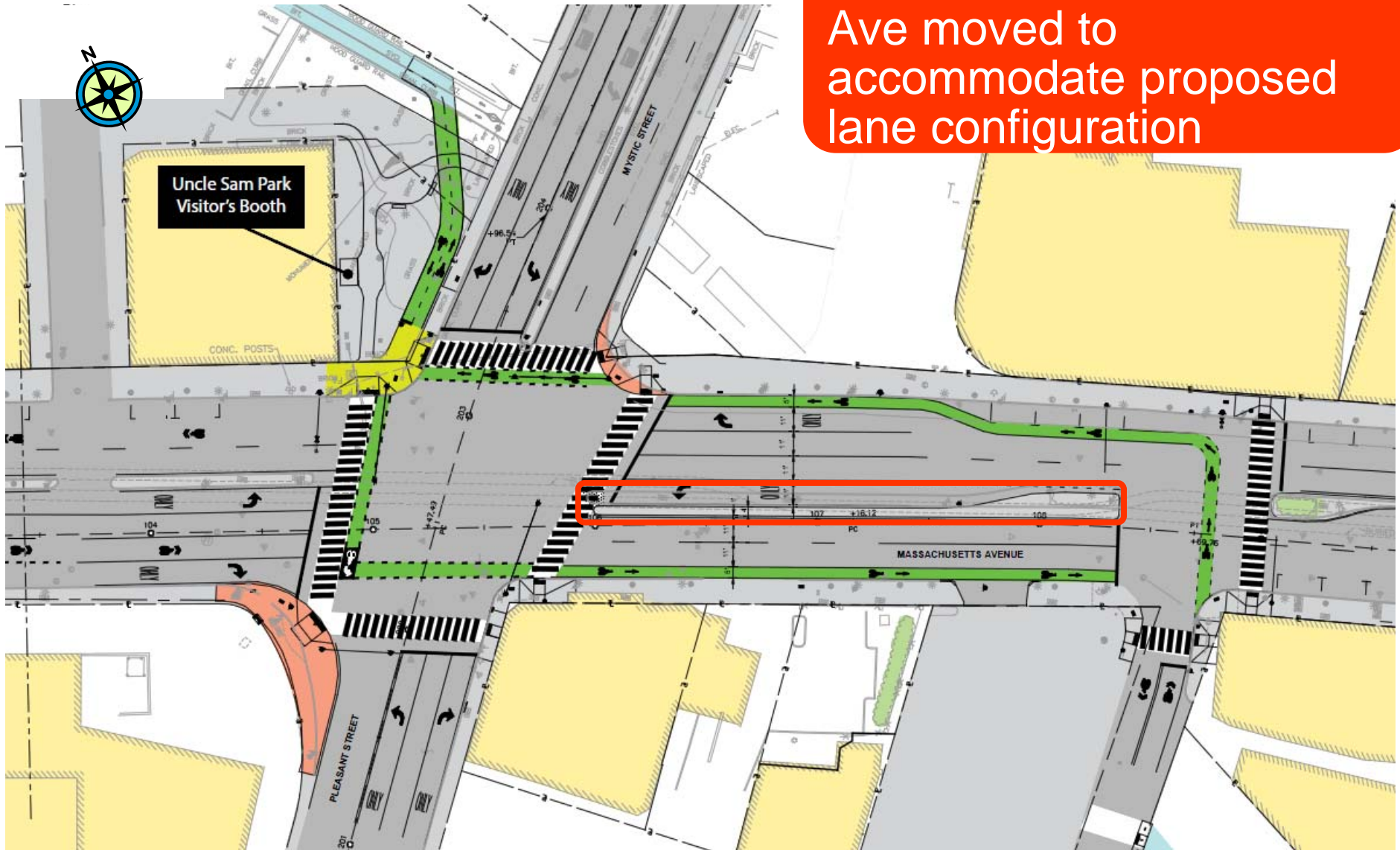


On Massachusetts Avenue looking west



# Proposed Improvements

Median on Massachusetts Ave moved to accommodate proposed lane configuration

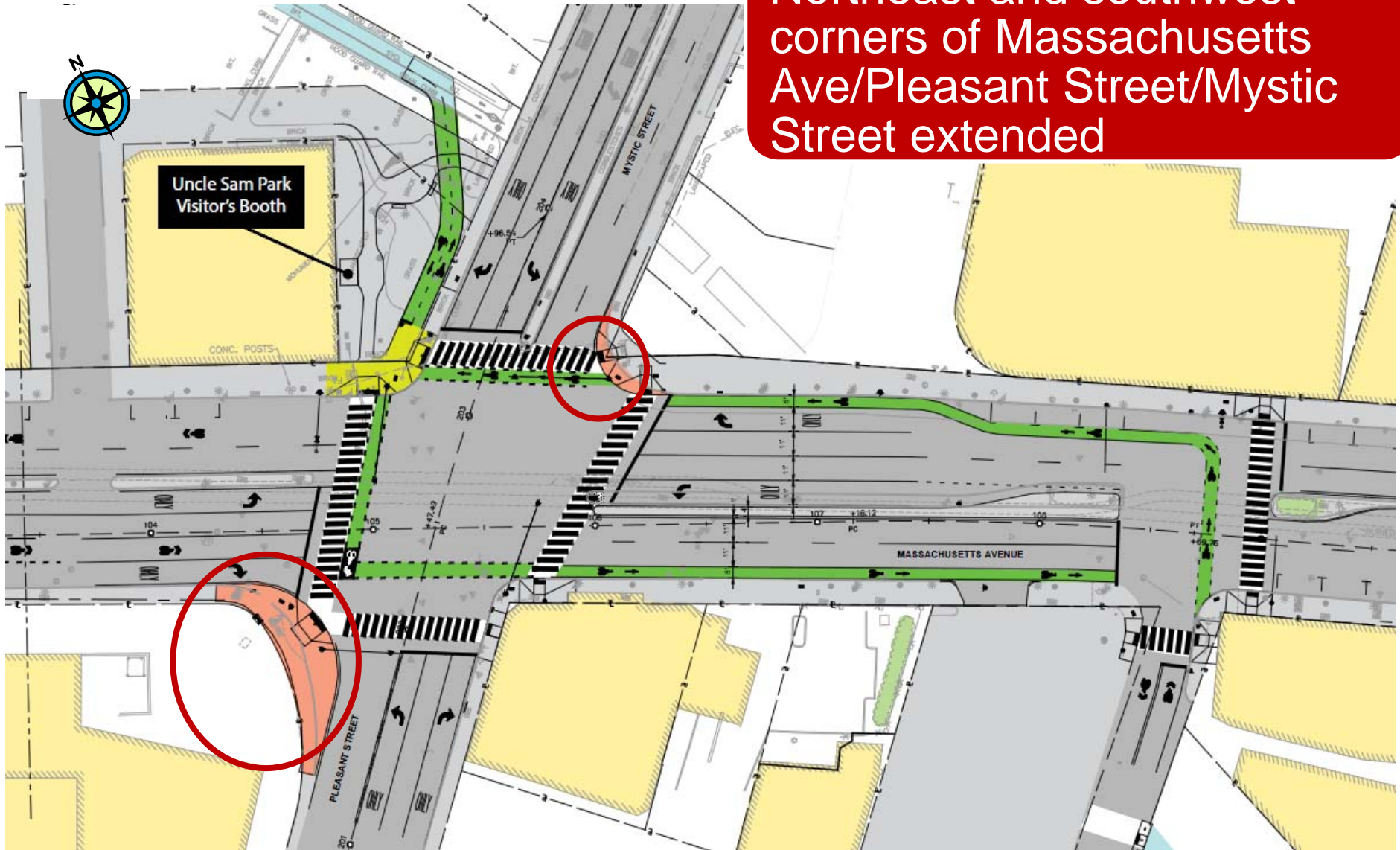






# Proposed Improvements

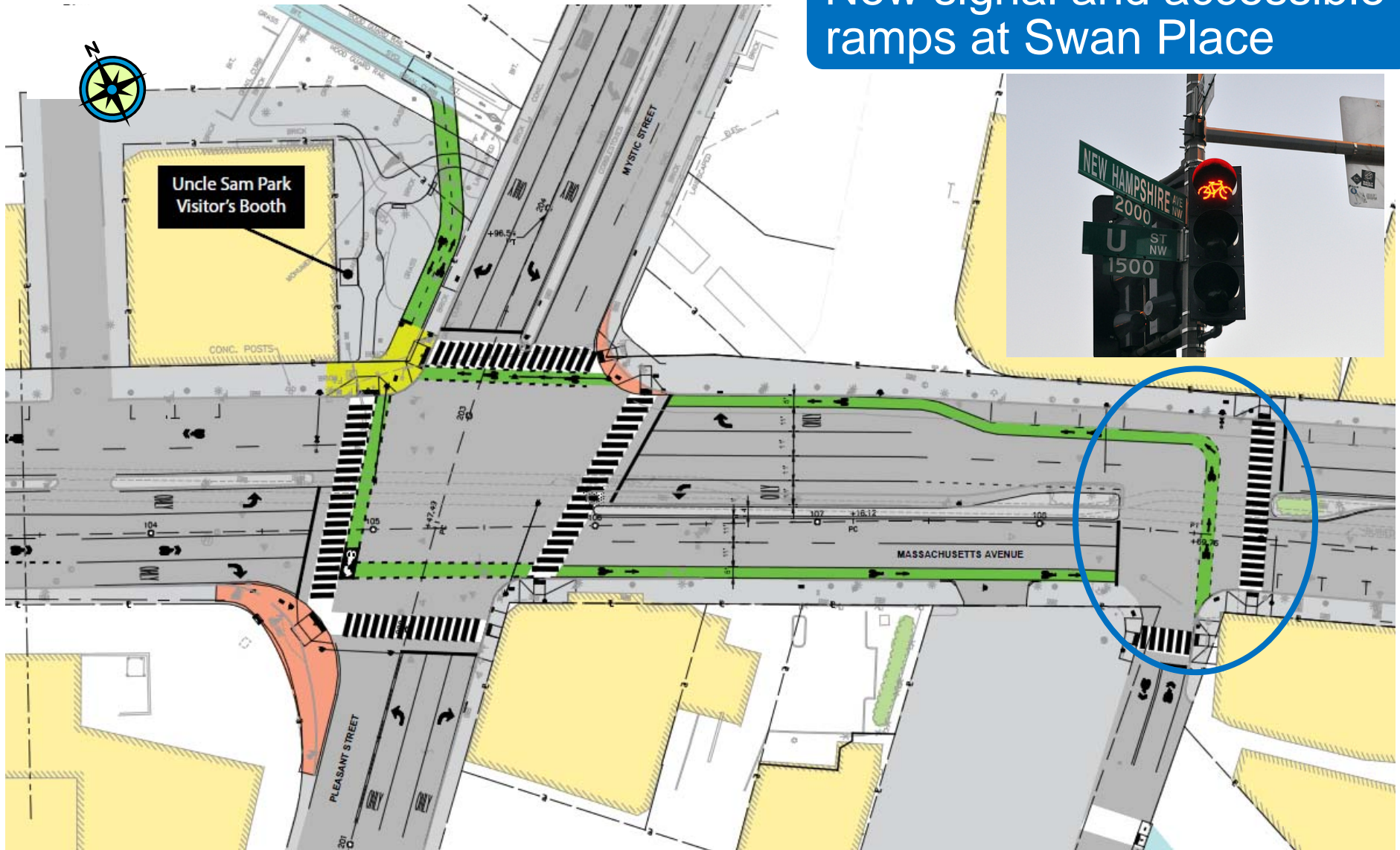
Northeast and southwest corners of Massachusetts Ave/Pleasant Street/Mystic Street extended





# Proposed Improvements

New signal and accessible ramps at Swan Place

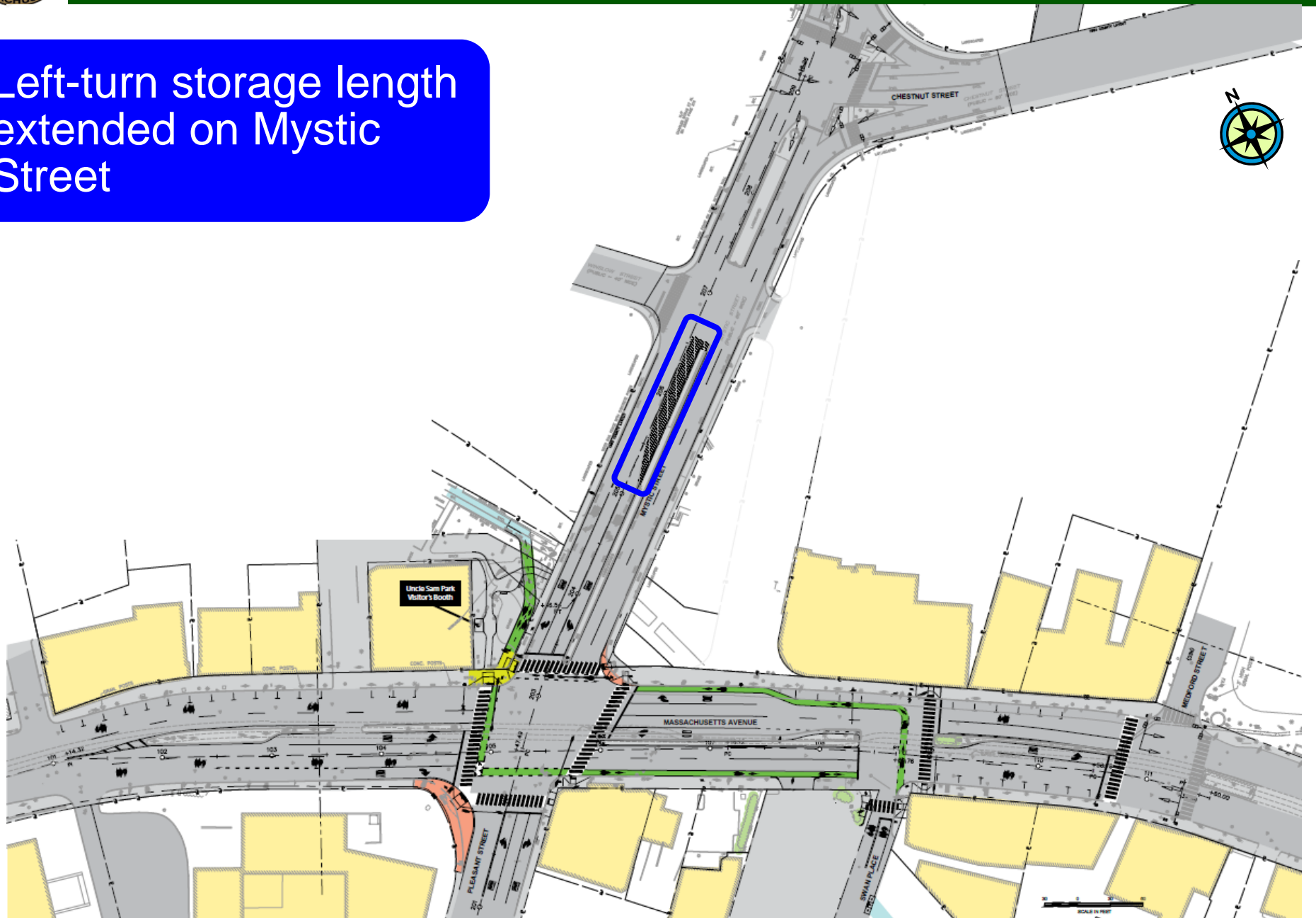






# Proposed Improvements

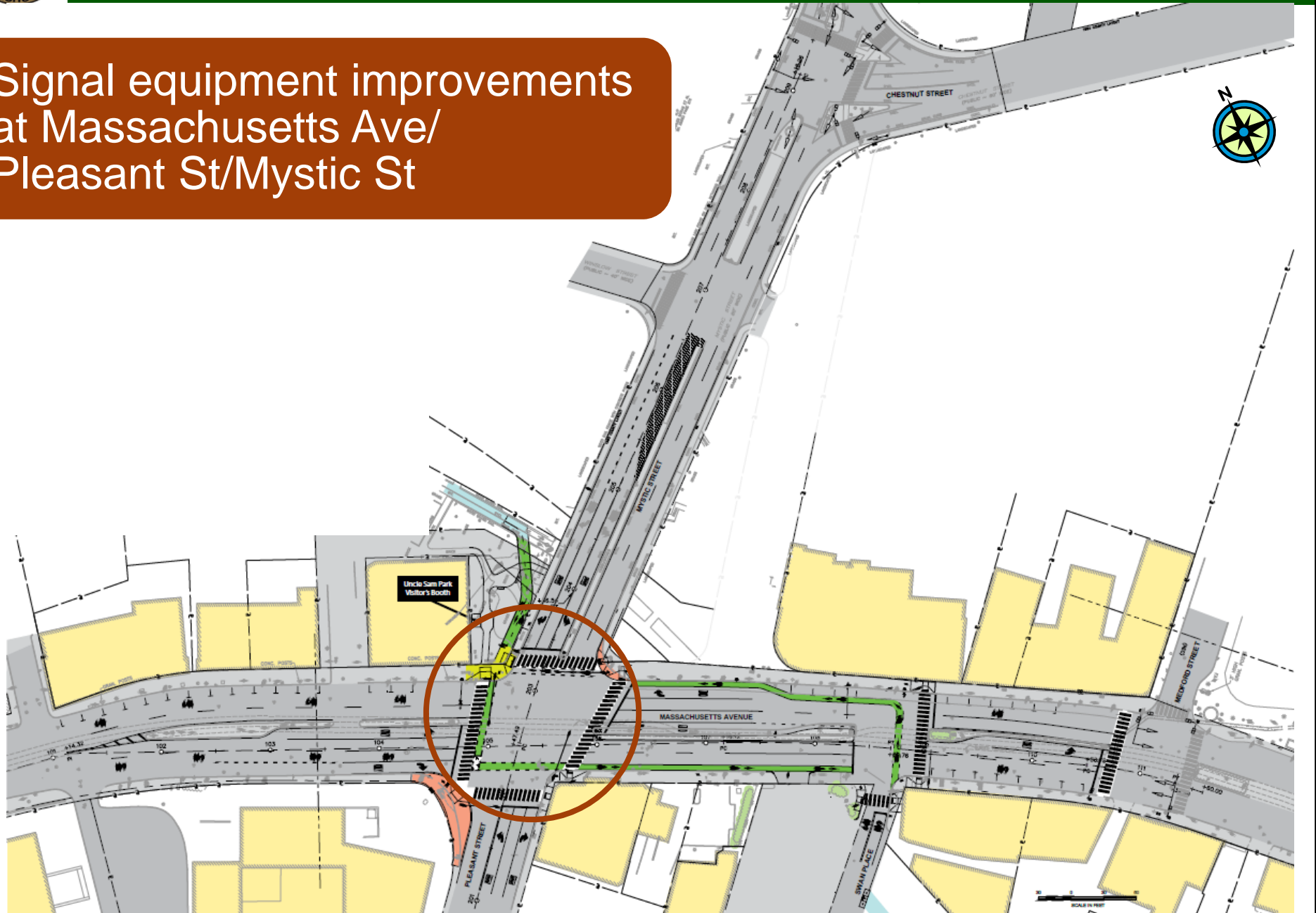
Left-turn storage length  
extended on Mystic  
Street





# Proposed Improvements

Signal equipment improvements  
at Massachusetts Ave/  
Pleasant St/Mystic St

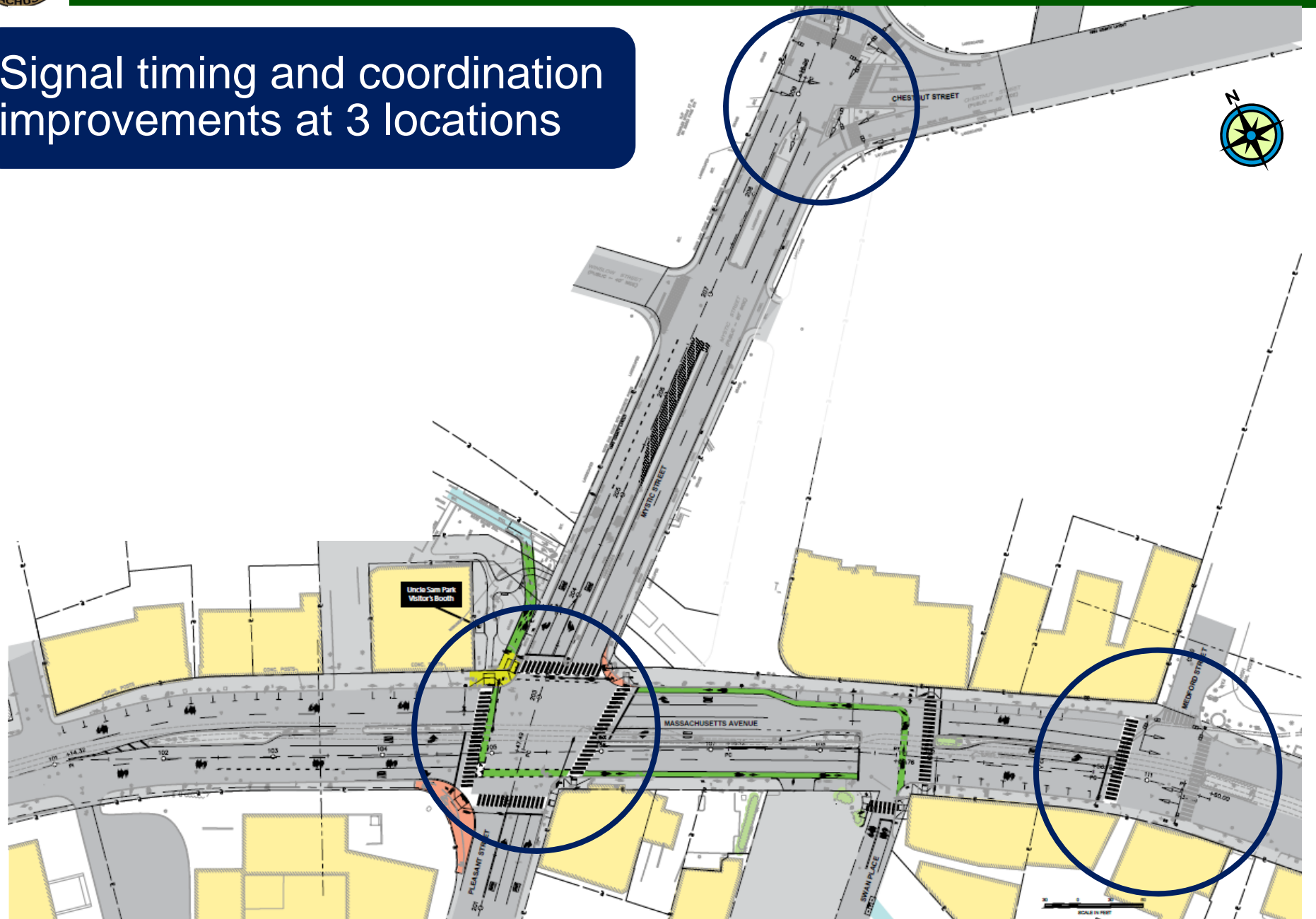






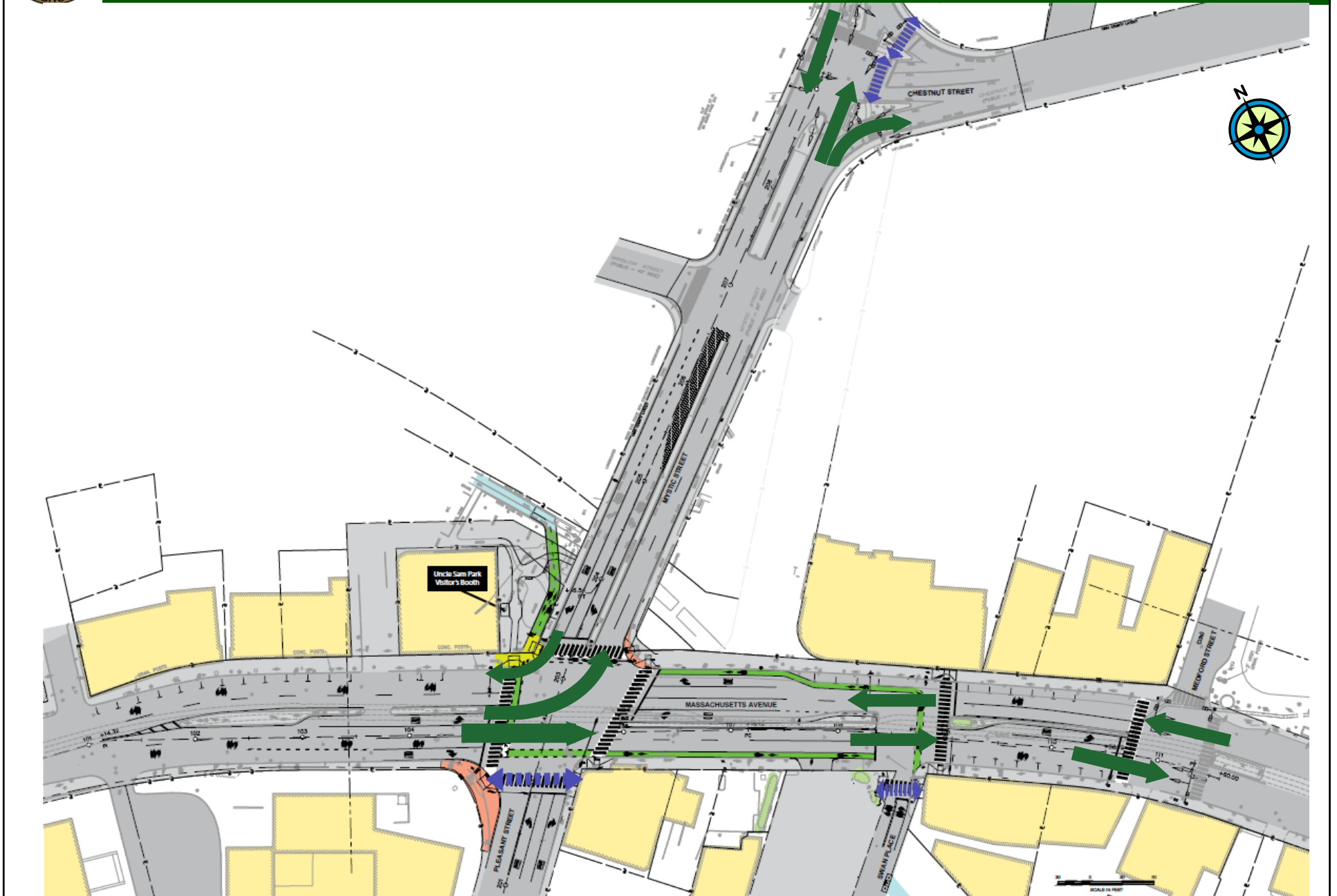
# Proposed Improvements

Signal timing and coordination improvements at 3 locations





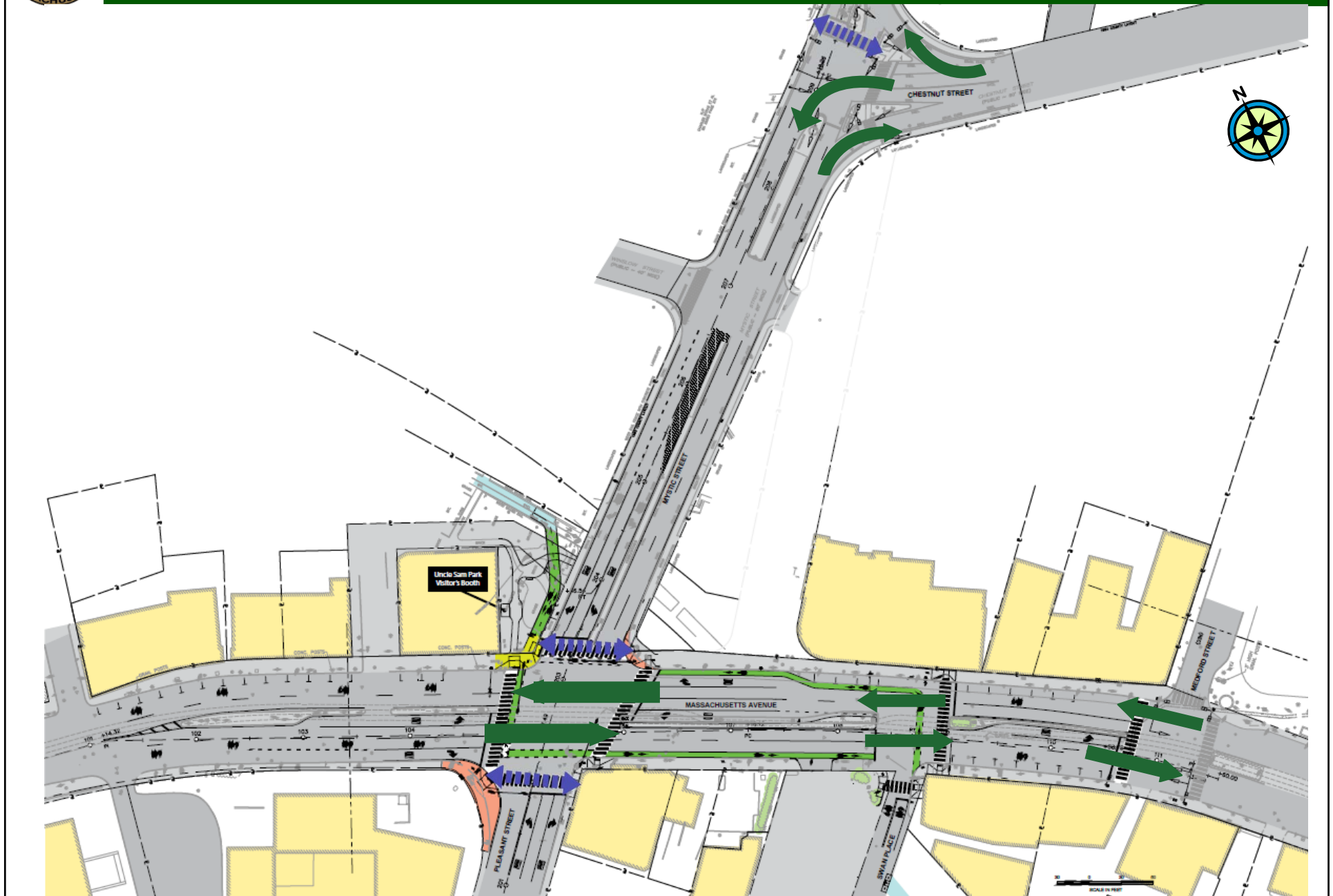
# Proposed Traffic Signal Coordination





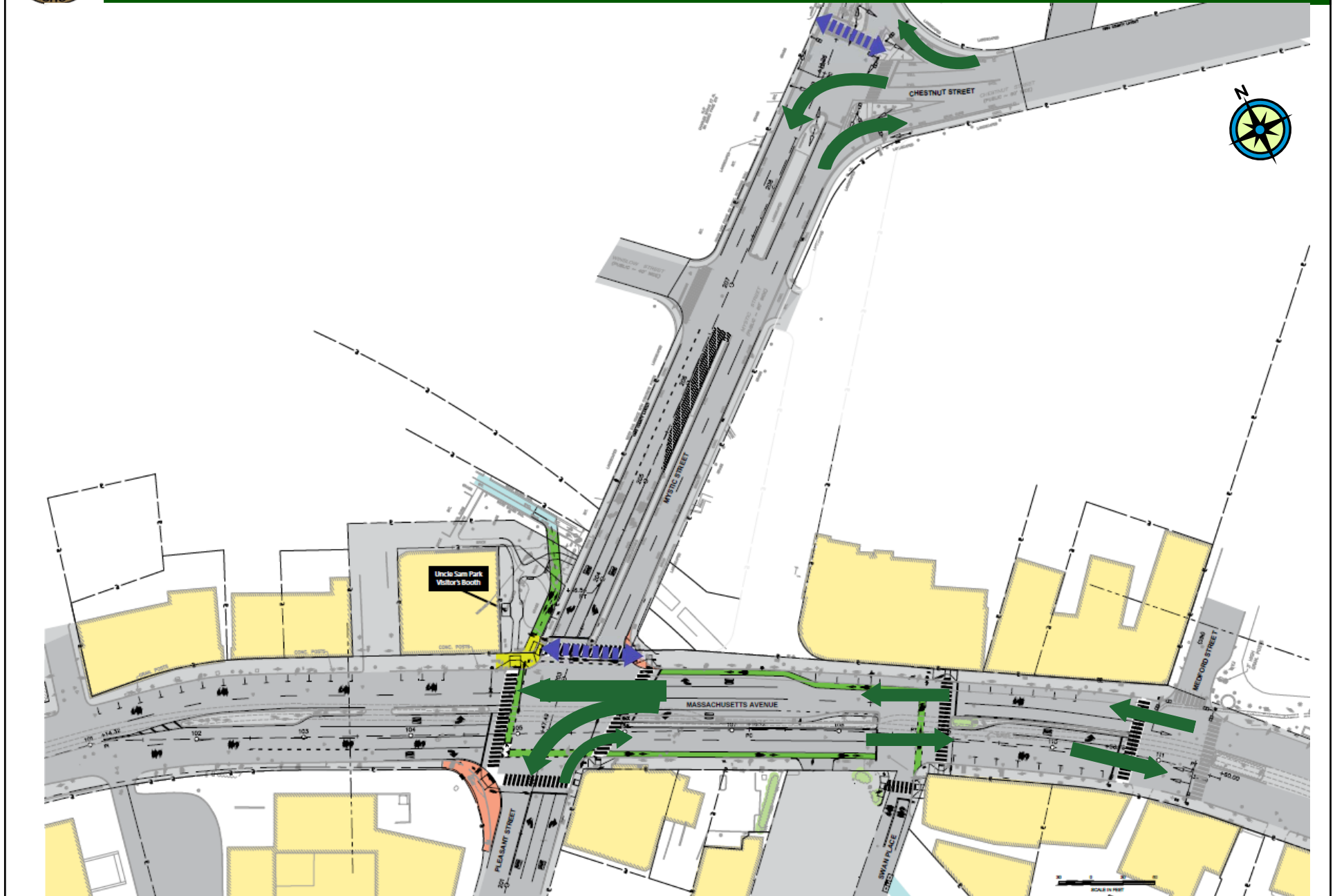


# Proposed Traffic Signal Coordination





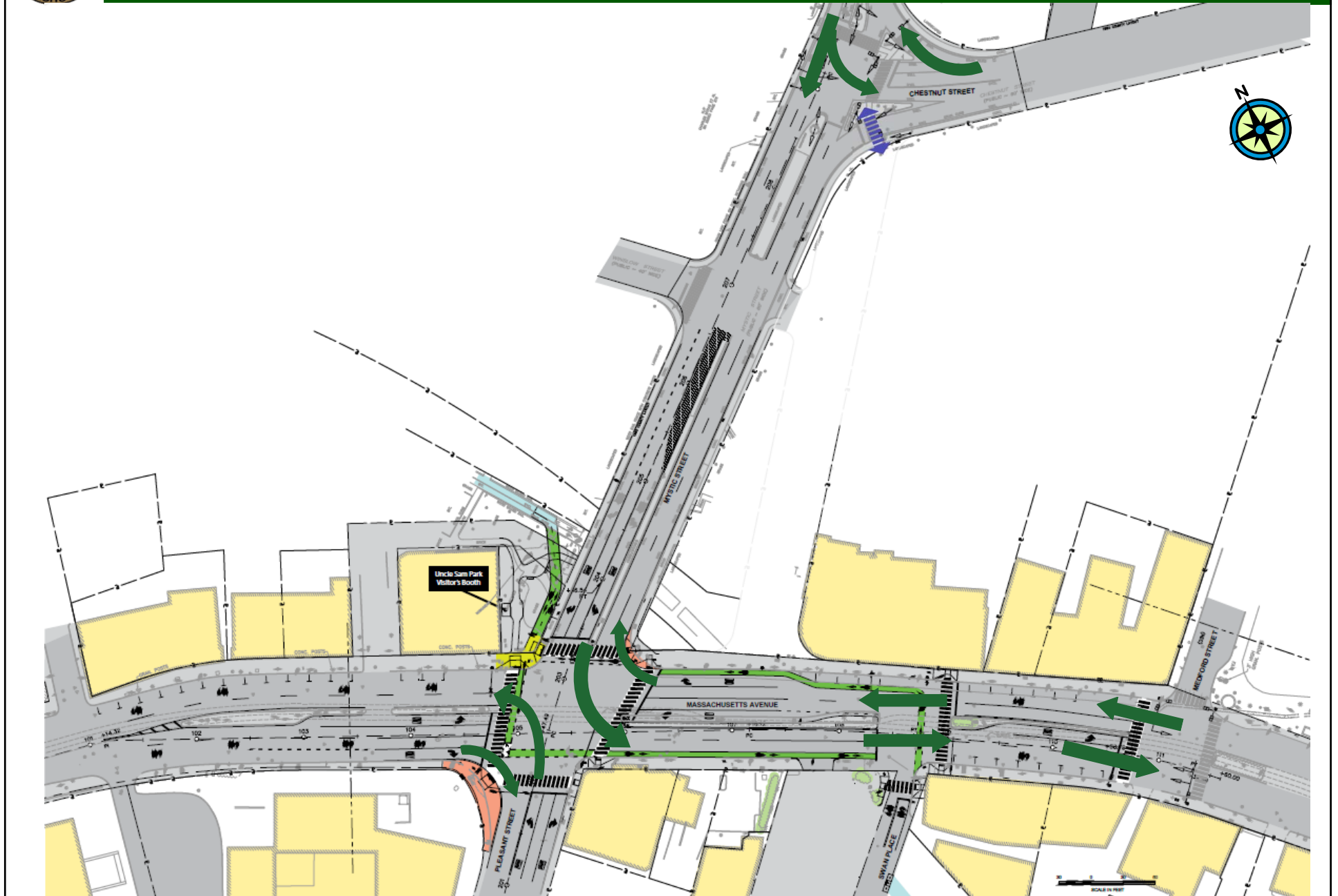
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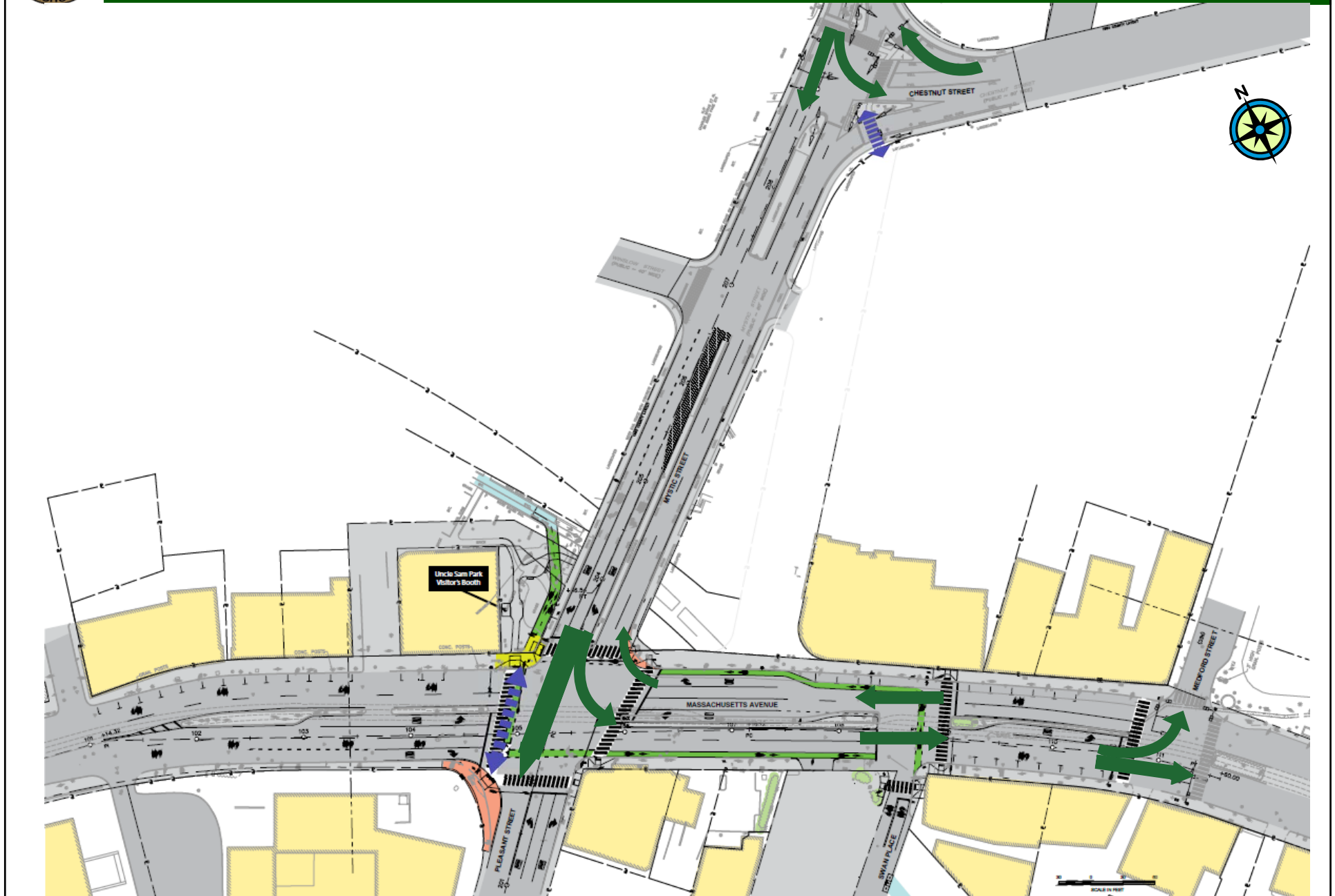


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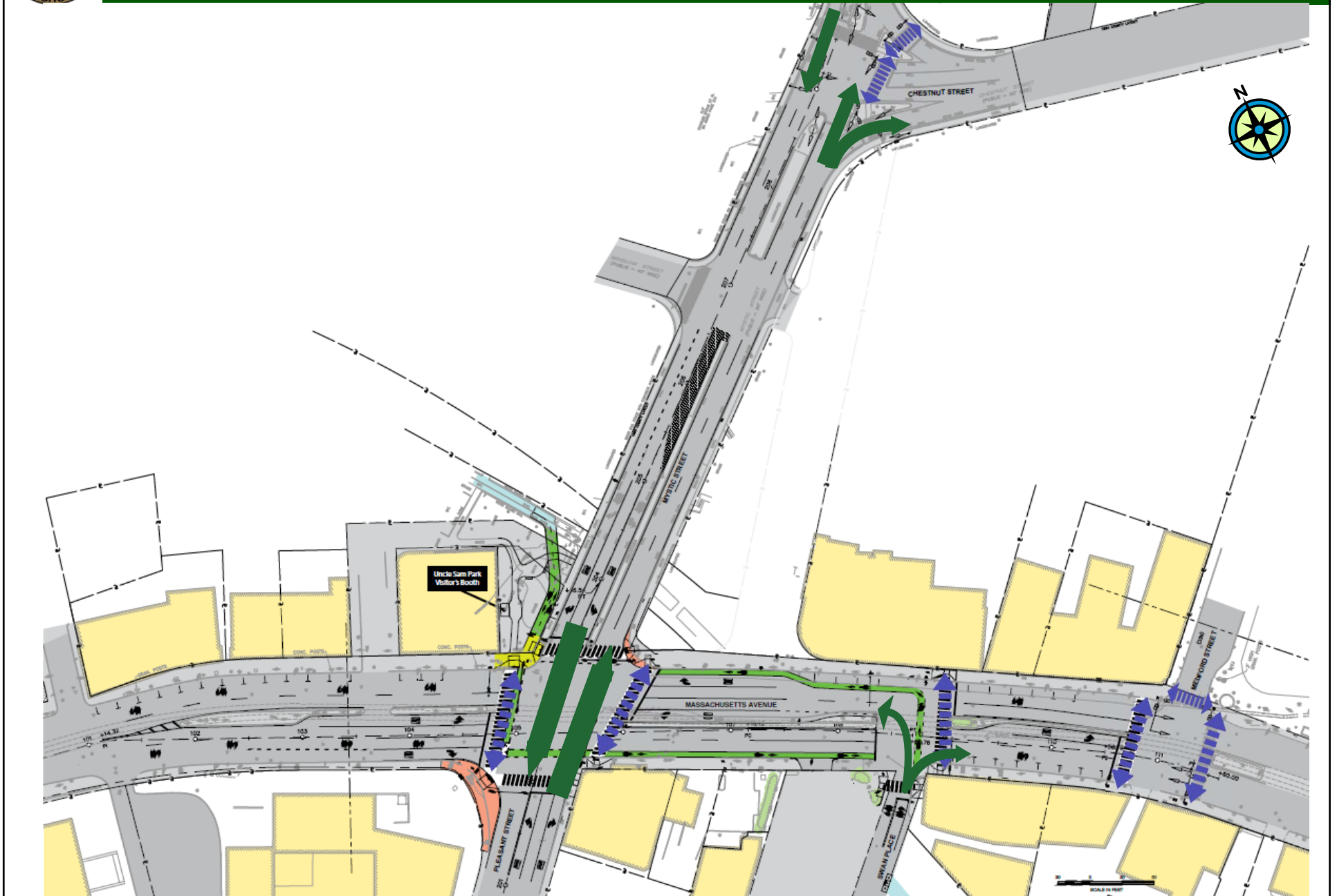
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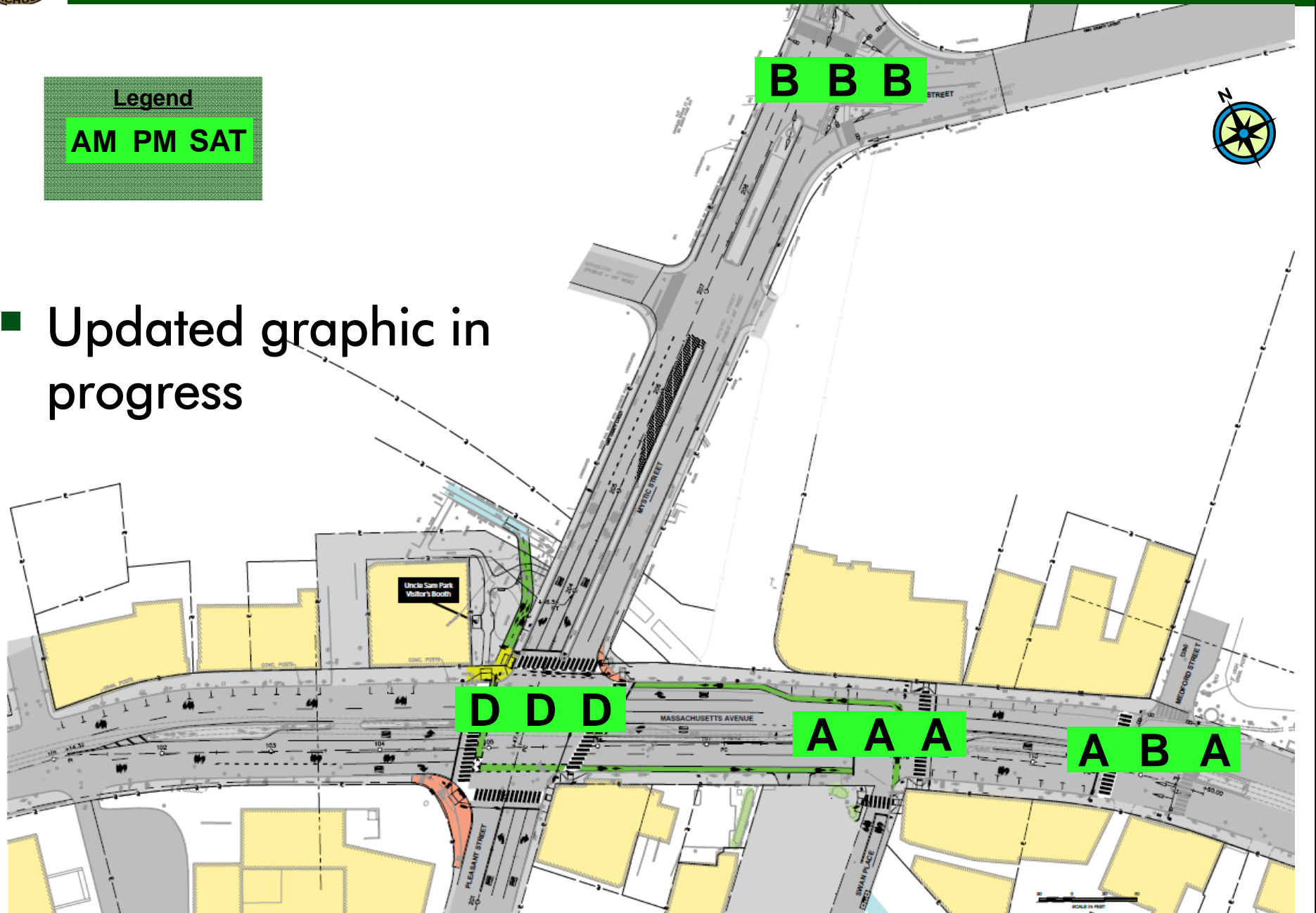


# Proposed Traffic Operations w. Existing Volumes

Legend

AM PM SAT

- Updated graphic in progress



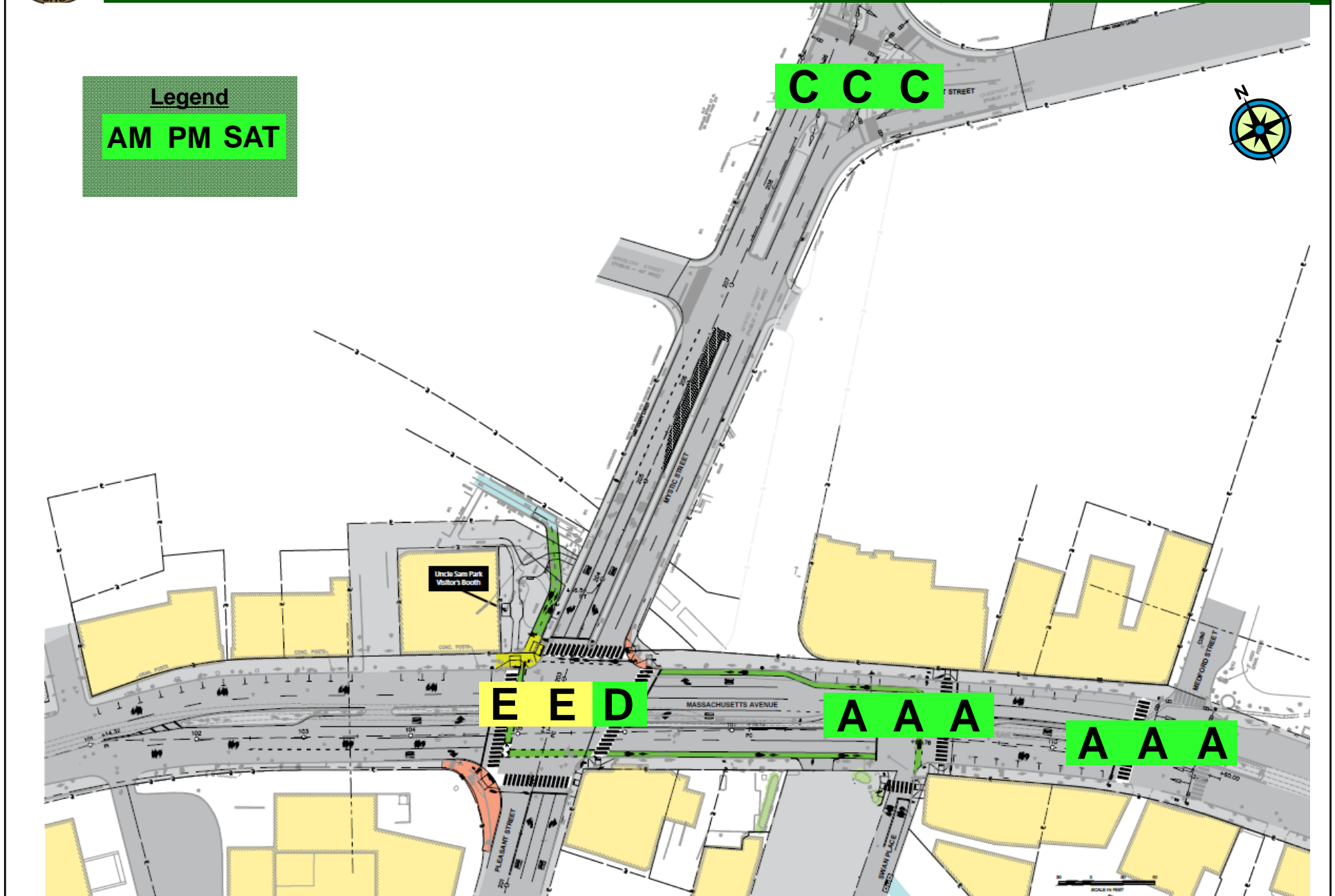




# Proposed Traffic Operations w. Future Volumes

Legend

AM PM SAT





# Benefits - Proposed Conditions

## ■ Pedestrians

- Shorter crossing distances and times
- Fewer conflicts with cyclists on sidewalk on Massachusetts Avenue and Mystic Street
- New accessible ramps at all corners

## ■ Vehicles

- Less delay through coordinated signal timing
- Extended queuing space for Mystic Street left-turn

## ■ Bicycles

- Fewer conflicts with pedestrians on Massachusetts Avenue and Mystic Street sidewalks
- Clearer connection between ends of the Minuteman Bikeway
- Safer crossing at Swan Place





# Questions/Comments

